test pixel

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memory (20)

decision

decision

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```
if(De-ringing filter) //De-ringing filter decision made by decision stage
nE=0;
newVal=0;
 for(ix=-1;ix \le 1;ix + +)
  for(iy=-1;iy<=1;iy++)
        if(Map(i+ix, j+iy) == 0)
                if((ix!=0) \mid |(iy!=0))
                           newVal = newVal + I(i + ix, j + iy);
                          nE++;
if(nE==1)
        I(i, j) = ((newVal + I(i, j) + 1) >> 1);
else if(nE < 4)
        for(ii=nE;ii<4;ii++)
                newVal = newVal + I(i, j);
        I(i, j) =(( newVal +2)>>2);
else if(nE<8)
         for(ii=nE;ii<8;ii++)
                 newVal = newVal + I(i, j);
        I(i, j) = ((rAvg+4) >> 3);
else\ if(nE==8)
         I(i, j) = ((newVal - I(i + 1, j + 1) + I(i, j) + 4) >> 3);
```

Fig. 4 Pseudo-code for de-ringing filter

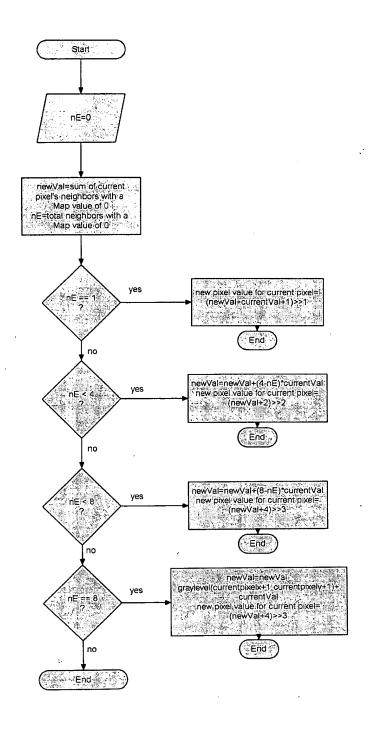


Fig. 5

START decodina Video + image accepting 606 collecting data from 1st 1 roup of pixels defining matrix ut group by matrix! Selecting predet-lermined pixel position randomly selecting Pixel position salected pixel to calculate FV USING replacing test pixel with FVF5614 Fig. 6

STARA math operation on 1st group of if test pixel has ringing artifacts math operation on 2nd group of pixels test Pixel with FV

Fig. 7